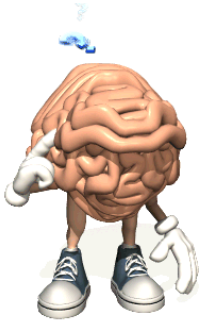


Warm Up

Factor each of the following:

1) $3x^4 - 15x^2 + 24x$

2) $18a^3b^6 + 27ab^2 - 36ab$

$9ab(2a^2b^5 + 3b - 4)$

3) $-21rt - 49r^4 - 35r^3t$

4) $6xy^2 + 7x^2y + 2y$

$y(6xy + 7x^2 + 2)$

Simplify then Factor:

1) $2x^3 - 5x + 7 + 6x^3 + x + 1$

$8x^3 - 4x + 8$

$4(2x^3 - x + 2)$

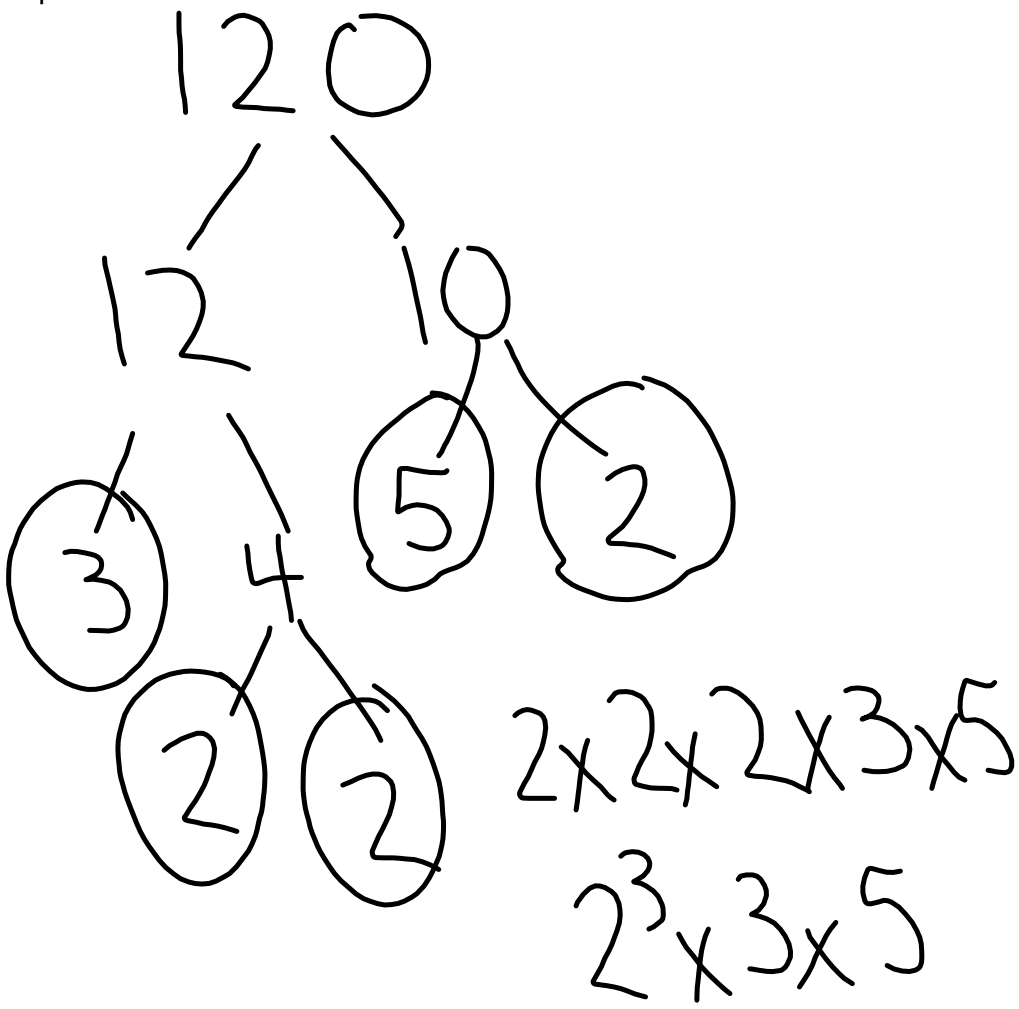
2) $-7n^3y - 5n^2y^3 + 2ny^2 - n^2y^3 - n^3y - 12ny$

$-8n^3y - 6n^2y^3 + 2ny^2 - 12ny$

$2ny(-4n^2 - 3ny + y - 6)$

Prime factorization of 120

Hint: Product of primes



Polynomials

Monomial 1 term

Binomial 2 terms

Trinomial 3 terms

How are terms separated?????

Terms are separated by “+” and “-“ signs.

How many terms?

$4x-5y+q$ 3

$5(x-3y)$ 2

$\frac{3x-4}{5}$ 2

$\frac{3x}{5} - \frac{4}{5}$

Bonus: How many terms?

$3x+4y-5x-2y+x$

$-x+2y$

2